10/557828

IAP12 Rec'd PCT/PTO 21 NOV 2005

PATENT

50058

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Akihiko KANZAKI et al.

Serial No.: not yet received

Filed: herewith

For: WATER-SOLUBLE POLYMER AND ITS PRODUCTION PROCESS AND USES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. § 1.97 and § 1.98, Applicants bring the disclosures attached and listed on completed Form PTO-1449 to the Examiner's attention and request that they be considered and made of record in this application.

JP-A-270605/1987 corresponds to U.S. Patent Nos. 4,774,303 and 4,862,930.

Japanese Patent No. 2574144/1996 corresponds to U.S. Patent Nos. 5,993,666 and 5,733,857.

JP-A-52915/1997 corresponds to U.S. Patent Nos. 5,859,286 and 6,107,428. WO 95/03342 corresponds to U.S. Patent Nos. 5,733,857 and 5,993,666. JP-A-12627/2002 corresponds to EP 1101778.

In accordance with the amendments to 37 C.F.R. §1.98(a) (revisions effective October 21, 2004) and as discussed in the October 19, 2004 Official Gazette (1287 OG 163), copies of U.S. patents and published applications cited on the attached Form PTO-1449 are not enclosed.

10/557828 IAP12 Rec'd PCT/PTO 21 NOV 2005

Prompt examination on the merits is respectfully requested.

Respectfully submitted,

Garrett V. Davis Reg. No. 32,023

Roylance, Abrams, Berdo & Goodman, L.L.P. 1300 19th Street, N.W., Suite 600 Washington, D.C. 20036-1649 (202) 659-9076

Dated: Nov. 21, 2005

IAP12 Rec'd PCT/PTO 21 NOV 2005

Complete if Known Substitute for form 1449A/PTO **Application Number** Not yet received Filing Date Herewith INFORMATION DISCLOSURE First Named Inventor Akihiko KANZAKI STATEMENT BY APPLICANT Art Unit (use as many sheets as necessary) Examiner Name 50058 Sheet of Attorney Docket Number

| | | U.S. | PATENT DOCU | MENTS | |
|----------------------|-------------|--|--------------------------------|--|--|
| Examiner Initials | Cite No. | Document Number Number-Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | US-4,774,303 | 09-27-1988 | Denzinger et al. | |
| | l | US-4,862,930 | 09-05-1989 | Sauerbruch | |
| | | US-5,993,666 | 11-30-1999 | Yamaguchi et al. | · |
| | | US-5,733,857 | 03-31-1998 | Yamaguchi et al. | |
| | | US-5,859,286 | 01-12-1999 | Yamaguchi et al. | |
| | | US-6,107,428 | 08-22-2000 | Yamaguchi et al. | |
| | | US- | | | |
| | | US- | · | | |
| | | US- | | | |
| | | US- | | | |
| | <u> </u> | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | 1 |
| | <u> </u> | US- | <u> </u> | | |
| | <u> </u> | US- | | | |
| | <u> </u> | US- | | | <u> </u> |
| | | US- | | | 1 |
| | | US- | | | |

| | | FOR | REIGN PATENT | DOCUMENTS | | |
|----------------------|-------------|--|--------------------------------|--|--|---|
| Examiner Initials | Cite No. | Foreign Patent Document Country Code-Number- Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | т |
| | | JP 11-35989 🖟 | 02-09-1999 | Kao Corp | English abstract | |
| | | JP 62-270605. 🗻 | 11-25-1987 | | | |
| , | | JP 5-239114 ~ | 09-17-1993 | Rohm & Haas Co | English abstract | |
| | | JP 5-247143 · ≺ | 09-24-1993 | BASF AG | English abstract | |
| | | JP 3-2167 ~ | 01-14-1991 | Kao Corp | English abstract | |
| | | JP 3-14016 · ¬ | 02-25-1991 | Dainippon Ink & Chem | English abstract | |
| | | JP 2574144 | 10-24-1996 | | | |
| | | JP 9-52915 · - | 02-25-1997 | | | |
| | | WO 95/03342 | 02-02-1995 | Nippon Shokubai Co Ltd | | |
| | | JP 2000-355615. | 12-26-2000 | Nippon Shokubai Co Ltd | English abstract | |

| NON PATENT LITERATURE DOCUMENTS | | | | | | | |
|---------------------------------|-------------|---|---|--|--|--|--|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publishers, city and/or country where published | т | | | | |
| | | • | | | | | |
| | | | | | | | |
| | | | | | | | |

| Examiner | Date |
|-----------|------------|
| Signature | Considered |
| | |

10/557828 IAP12 Rec'd PCT/PTO 21 NOV 2005

| | | | | IAPIZ NE | CUPCITFIC AT NOV Z | |
|-----------------------------------|-------------------|-------|------------|------------------------|--------------------|--|
| Substitute | for form 1449A/PT | O | | Complete if Known | | |
| | | | | Application Number | Not yet received | |
| INF | ORMATION | פוח ו | CLOSURE | Filing Date | Herewith | |
| | | | | First Named Inventor | Akihiko KANZAKI | |
| STATEMENT BY APPLICANT | | | | Art Unit | | |
| (use as many sheets as necessary) | | | necessary) | Examiner Name | | |
| Sheet | 2 | of | 2 | Attorney Docket Number | 50058 | |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|-------------|--|--------------------------------|--|--|--|
| Examiner Initials | Cite No. | Document Number Number-Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | | | | |
| | 1 | US- | | | | |
| | | US- | | | | |
| | <u> </u> | US- | | | | |
| | | US- | | | | |
| | <u> </u> | US- | | | | |
| | <u> </u> | US- | | <u> </u> | | |
| | <u> </u> | US- | | | | |
| | ļ | US- | | | | |
| | ļ | US- | | | | |
| | ļ <u> </u> | US- | | | | |
| | | US- | | 1 | | |

| | | FOR | EIGN PATENT I | DOCUMENTS | | |
|----------------------|-------------|--|--------------------------------|--|--|-----------------|
| Examiner Initials | Cite No. | Foreign Patent Document Country Code-Number- Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | т |
| | | JP 2002-12627 — | 01-15-2002 | | | |
| | | EP 1 101 778 - | 05-23-2001 | Nippon Shokubai Co Ltd | | |
| | | WO 2004/024856 - | 03-25-2004 | Nippon Shokubai Co Ltd | | |
| | | CA 2 425 618 - | 10-17-2003 | Nippon Shokubai Co Ltd | | |
| | | WO 01/83572 - | 11-08-2001 | Kimberly-Clark | | |
| | | WO 00/59958 - | 10-12-2000 | Idemitsu Petrochem Co | English abstract | - |
| | | | | | | + |
| | | | | | | |

| | NON PATENT LITERATURE DOCUMENTS | | | | | | |
|----------------------|---------------------------------|---|---|--|--|--|--|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publishers, city and/or country where published | т | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Examiner | Date | |
|-----------|------------|--|
| Signature | Considered | |